

<110> EVANS, RONALD M.

<120> XENOBIOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND USES THEREFOR

<130> SALK2270-4

<140> 09/840,008

<141> 2001-04-20

<150> 09/458,366

<151> 1999-12-09

<150> 09/005,286

<151> 1998-01-09

<160> 43

<170> PatentIn Ver. 2.1

<210> 1

<211> 2068

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (583)..(1884)

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<221> modified base

<222> (1263)

<223> a, c, t, or g

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cettgatega teetttgeac eggattgtte aaagtggaec eeaggggaga agteggagea 540

aagaacttac caccaagcag tecaagagge ecagaagcaa ac etg gag gtg aga Leu Glu Val Arg 594

1

		_	_				_	-		gta Val 15		_		_		642
										gca Ala						690
				_	_	_	_		-	aag Lys	_					738
		_	_		_	_		_	-	ggc Gly					_	786
_		_		_		_		_		ttc Phe		_		_	_	834
										cag Gln 95						882
										atg Met						930
-						_	_		_	cgg Arg	_		_	_		978
										ctg Leu						1026
_	_				_	_	_	_	_	atg Met				-		1074
					_				_	cca Pro 175				_	_	1122
										cca Pro						1170
										tgc Cys						1218
										ctg Leu						1266

_	_	cag Gln								_	_			_	_	1314
_	_	tca Ser			_						_		_		_	1362
		tac Tyr			_	_				_	_			_	_	1410
_		gcc Ala	_			_	_		_	_						1458
		gag Glu 295														1506
_	_	act Thr	_				_				_			_	_	1554
		cac His														1602
		atg Met														1650
		cac His														1698
		tcc Ser 375														1746
		ctg Leu														1794
		cac His														1842
		ccc Pro														1884
tgag	gegge	tg c	cttg	ggtg	ja ca	cctt	cgag	agg	cago	cag	acco	agag	jcc c	tctg	agccg	1944
gcac	tccc	:gg	ccaa	gaca	g at	ggac	actg	сса	agag	ıccg	acaa	tgcc	ct g	ctgg	cctgt	2004
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cccc 2068

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Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser 245 250 255

Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln 260 265 270

Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe 275 280 285

Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu 290 295 300

Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu 305 310 315 320

Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His 325 330 335

Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp 340 345 350

Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln 355 360 365

Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro 370 375 380

Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu 385 390 395 400

Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp
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Gly Ser

<210> 3

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<223> Description of Artificial Sequence: Putative SXR
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 rCYP3A1

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25

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<400> 4 taagcagtto	ataaagttca tctac		25
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<210> 6 <211> 26 <212> DNA <213> Arti	ficial Sequence		
resp	ription of Artificial onse element from the	Sequence: Putative SXR steroid hydoxylase,	
<400> 6 caatcagtto	aacagggttc accaat		26
<210> 7 <211> 33 <212> DNA <213> Arti	ficial Sequence	•	
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<210> 8 <211> 27 <212> DNA <213> Arti	ficial Sequence		

<220>			
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<211>	27		
<212>	DNA		
<213>	Artificial Sequence		
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<223>	Description of Artificial response element from the rCYP2A2	-	
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gtgctg	ggttc aactggaggt cagtatg		27
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	agttc agtgggggtt cagtctt		27
<210>			
<211>			
<212>			
<213>	Artificial Sequence		
<220>	Description of Artificial	Saguenge, Dutation	CVD
\ 2237	response element from the hCYP2E1		JAK
<400>	11		
gagatg	gttc aaggaagggt cattaac		27
<210>	12		
<211>			
<212>			
	Artificial Sequence		
<220>			
<2233 S	Description of Artificial	Sequence: Direct re	neat

with spacer of 0 nucleotides

<400> 12 catagtcagg tcaaggtcag atcaac	26
<210> 13 <211> 27 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Direct repeat with spacer of 1 nucleotides	
<400> 13 catagtcagg tcataggtca gatcaac	27
<210> 14 <211> 28 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Direct repeat with spacer of 2 nucleotides	
<400> 14 catagtcagg tcaataggtc agatcaac	28
<210> 15 <211> 29 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Direct repeat with spacer of 3 nucleotides	
<400> 15 catagtcagg tcatataggt cagatcaac	29
<210> 16 <211> 30 <212> DNA <213> Artificial Sequence	
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<400> 16 catagtcagg tcatataagg tcagatcaac	30

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<210> 17
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catagtcagg tcatatatag gtcagatcaa c
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<210> 18
<211> 33
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Direct repeat
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<400> 18
catagtcagg tcatatataa ggtcaagatc aac
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<210> 19
<211> 33
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Direct repeat
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<400> 19
catagtcagg tcatatatat aggtcagatc aac
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<210> 20
<211> 36
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catagtcagg tcatatatat ataaggtcag atcaac
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<220>
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<222> (7)..(11)
<223> This region may encompass 5, 4 or 3 nucleotides;
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agttcannnn ntgaact
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<210> 23
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tgaactcaaa ggaggtca
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<210><211><211><212><213>	19	
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	Artificial Sequence	
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<400>	27	
agctta	aggte acgtgaceta	20
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agcttaggtc acatgtgacc ta
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<210> 30
<211> 23
<212> DNA
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                                                                      23
                       . . . . . . . . . . . . .
<210> 31
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<212> DNA
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<210> 36 <211> 25 <212> DNA <213> Artificial Sequence	
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<210> 41 <211> 6 <212> PRT <213> Artificial Sequence	
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<400> 41 Arg Gly Lys Thr Cys Ala 1 5	
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